FIG. 1

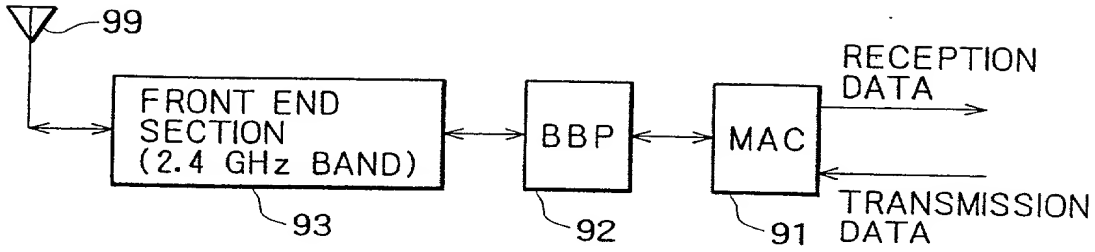

FIG. 2

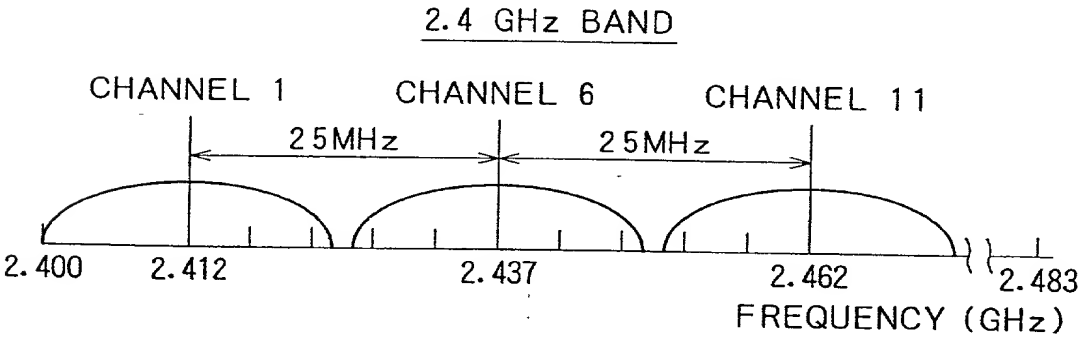

FIG. 3

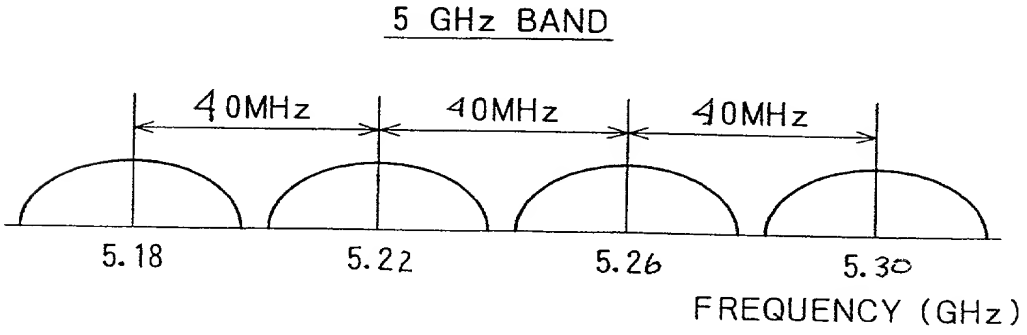

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FIG. 4

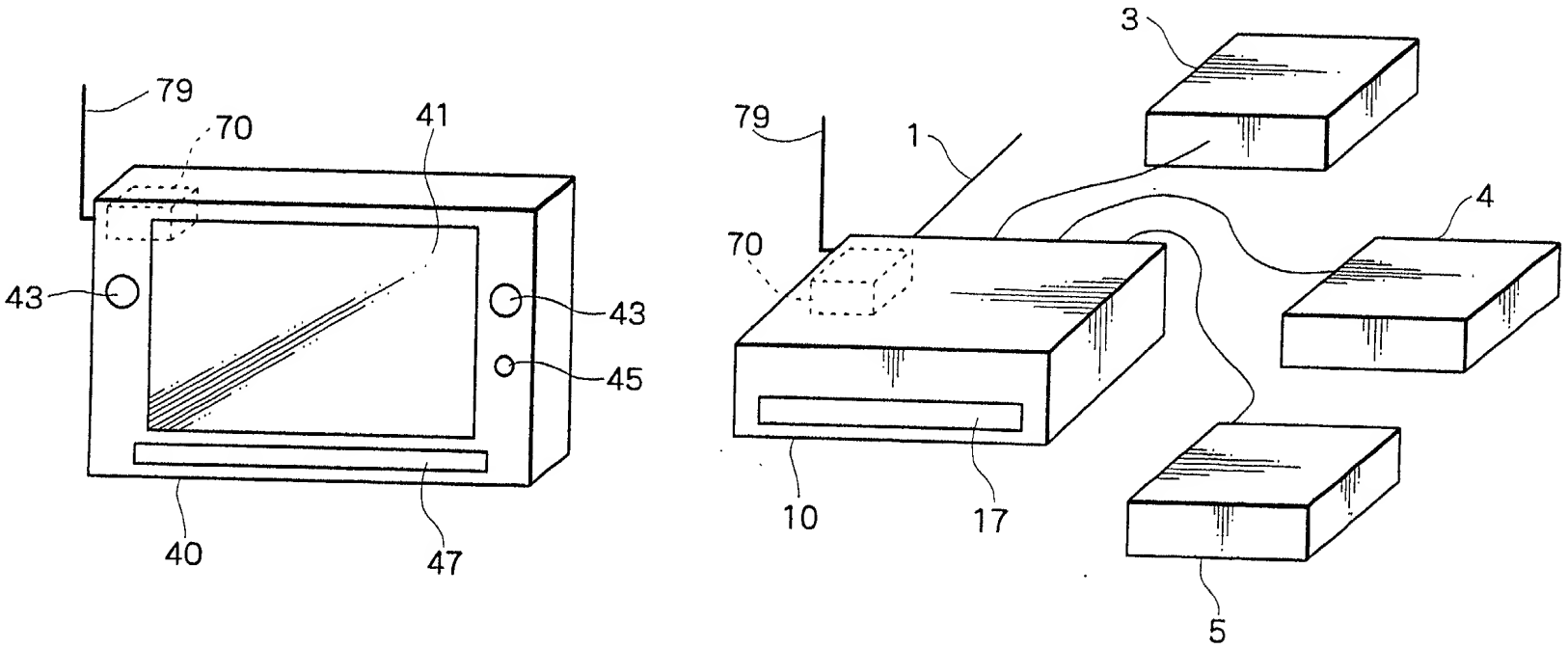

FIG. 5

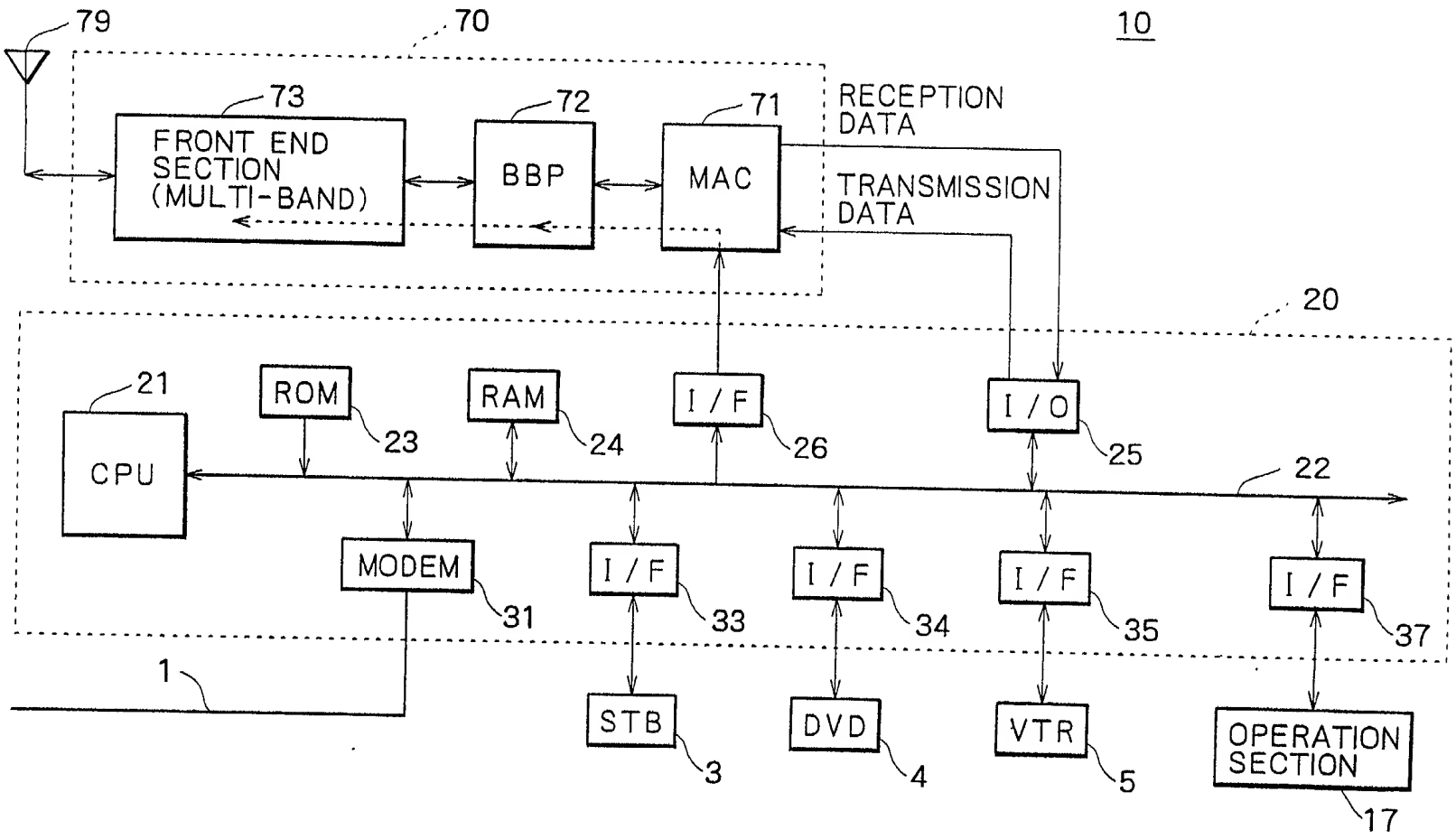
79
70
10
73
FRONT END SECTION (MULTI-BAND)
72
BBP
71
MAC
RECEPTION DATA
TRANSMISSION DATA
20
21
CPU
ROM
23
RAM
24
I / F
26
I / O
25
22
MODEM
31
I / F
33
I / F
34
I / F
35
I / F
37
1
STB
3
DVD
4
VTR
5
OPERATION SECTION
17

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FIG. 6

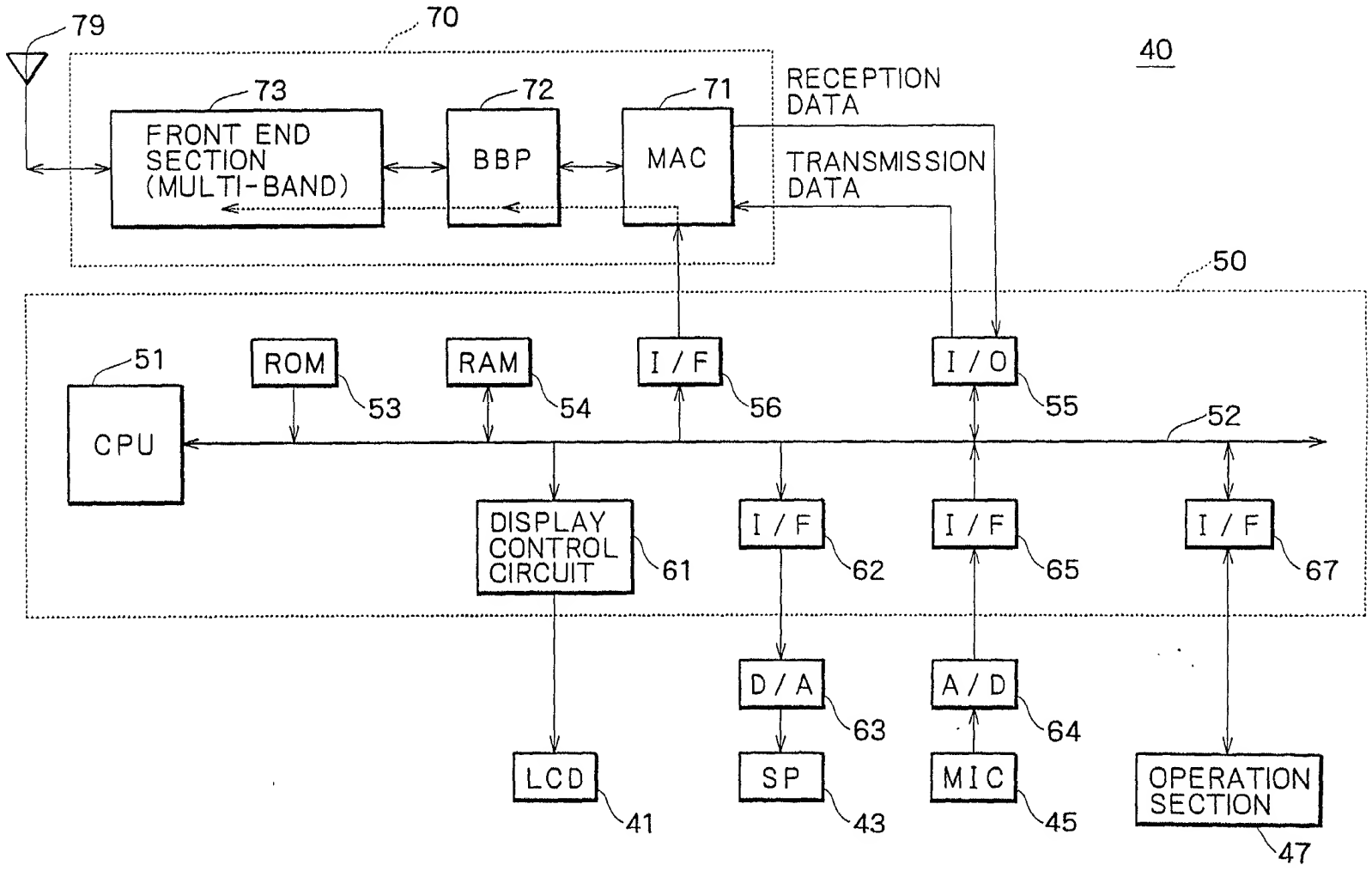

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FIG. 7

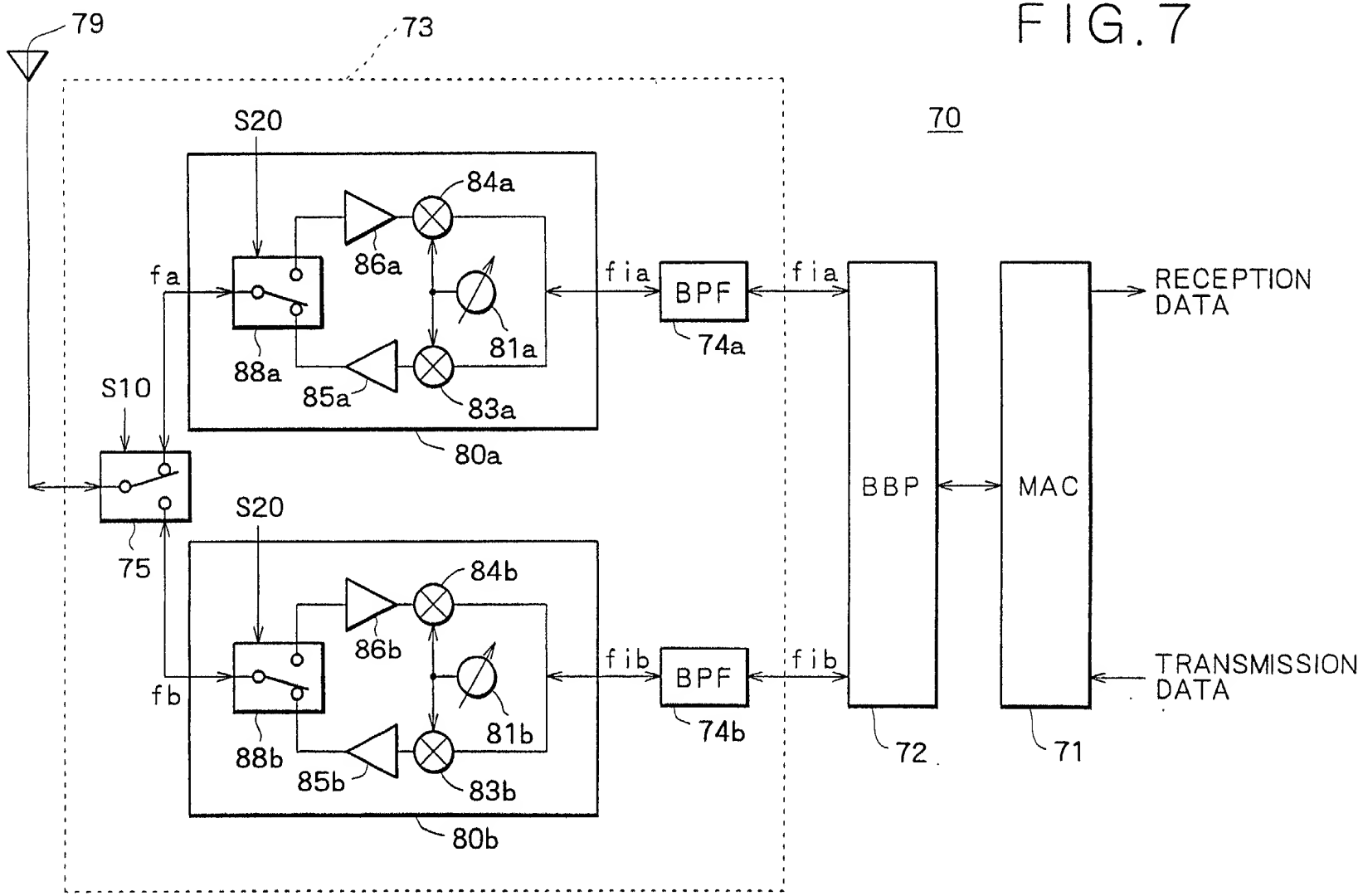

FIG. 8

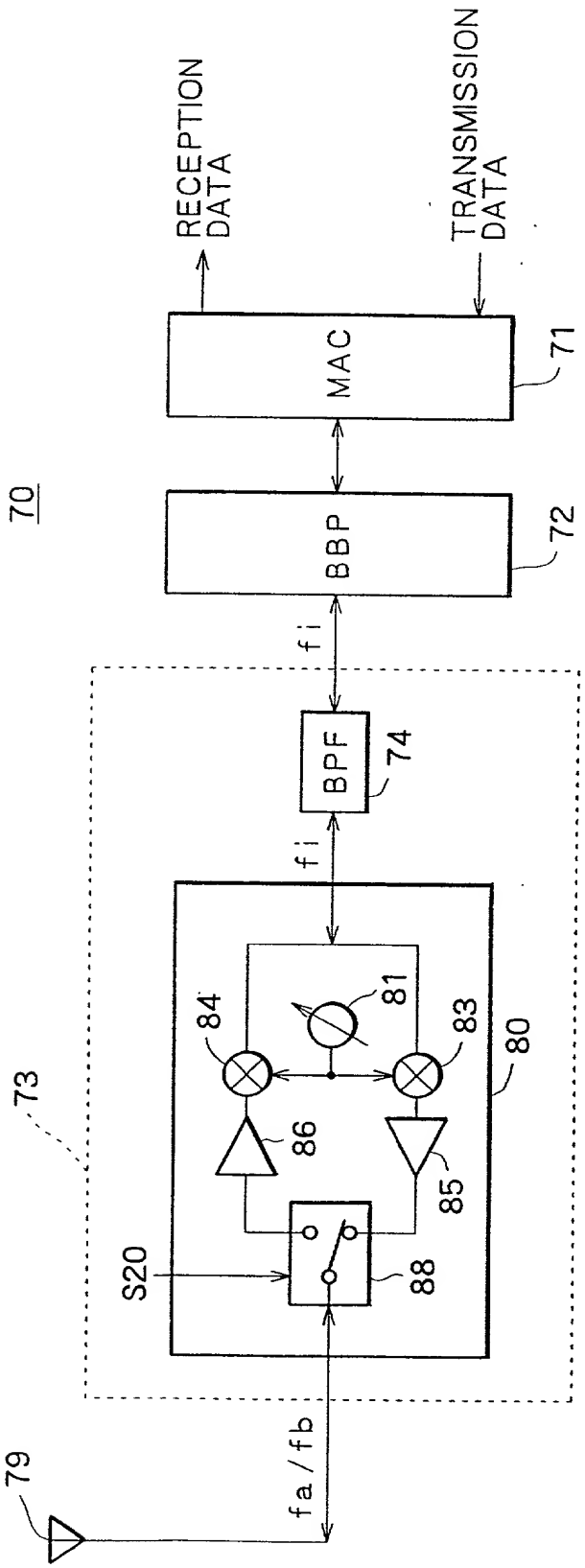
70
RECEPTION DATA
TRANSMISSION DATA
MAC
71
BBP
72
fi
BPF
74
fi
84
81
83
80
73
86
85
S20
88
79
fa / fb

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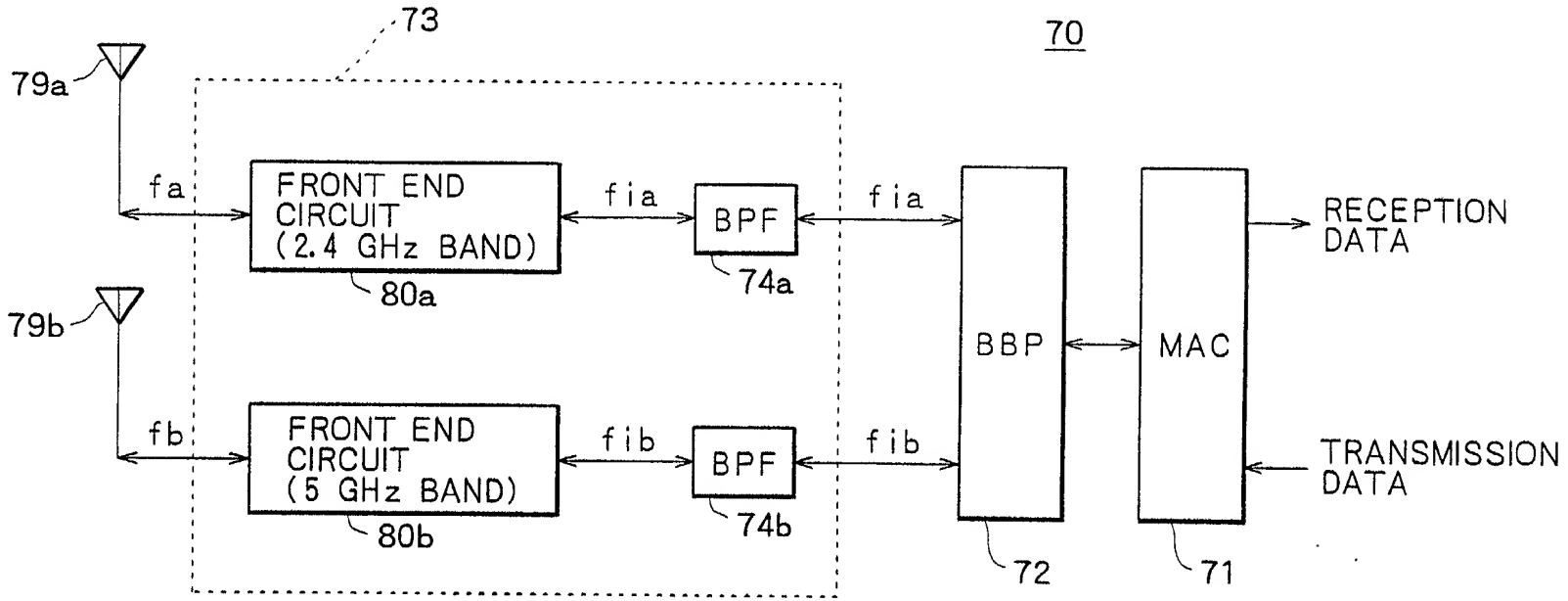
FIG. 9



JP2120-182A0660

FIG. 10

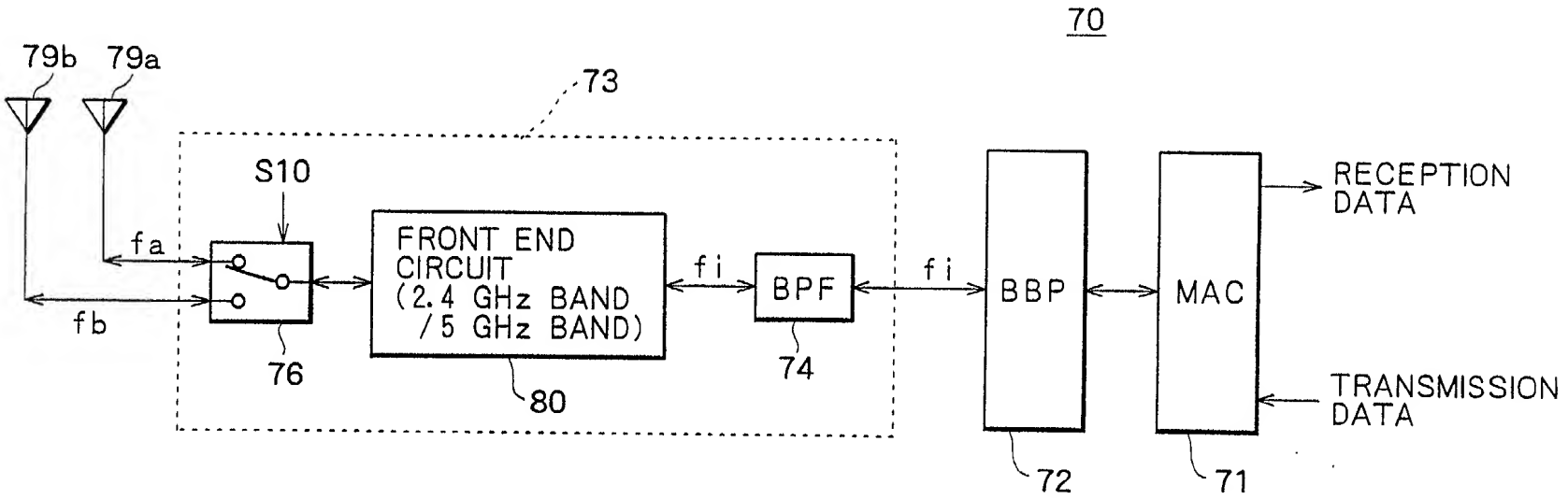


FIG. 11

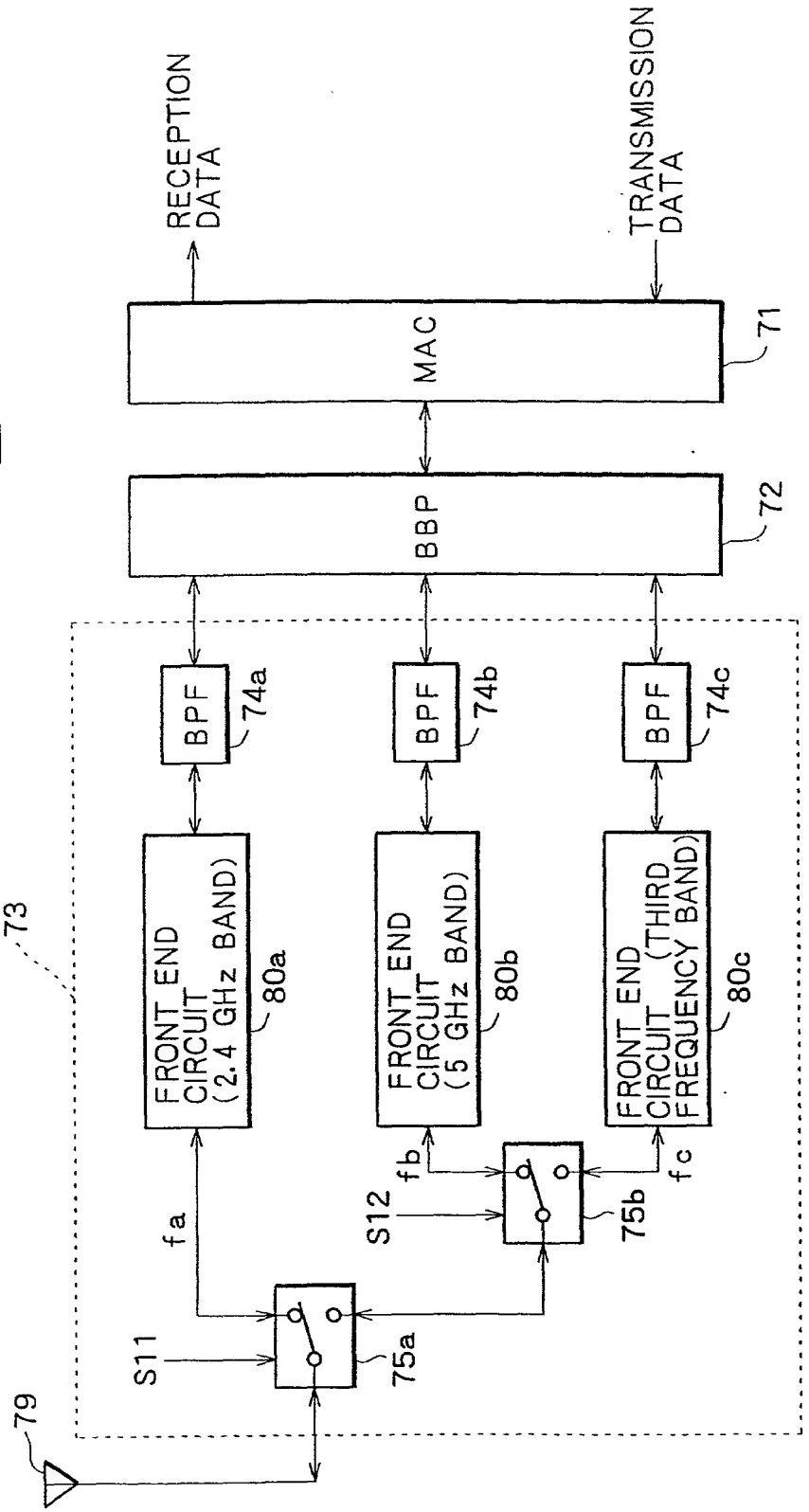

70
RECEPTION DATA
TRANSMISSION DATA
MAC
71
BBP
72
BPF
74a
BPF
74b
BPF
74c
73
FRONT END CIRCUIT (2.4 GHz BAND)
80a
FRONT END CIRCUIT (5 GHz BAND)
80b
FRONT END CIRCUIT (THIRD FREQUENCY BAND)
80c
fa
fb
fc
S11
S12
75a
75b
79

FIG. 12

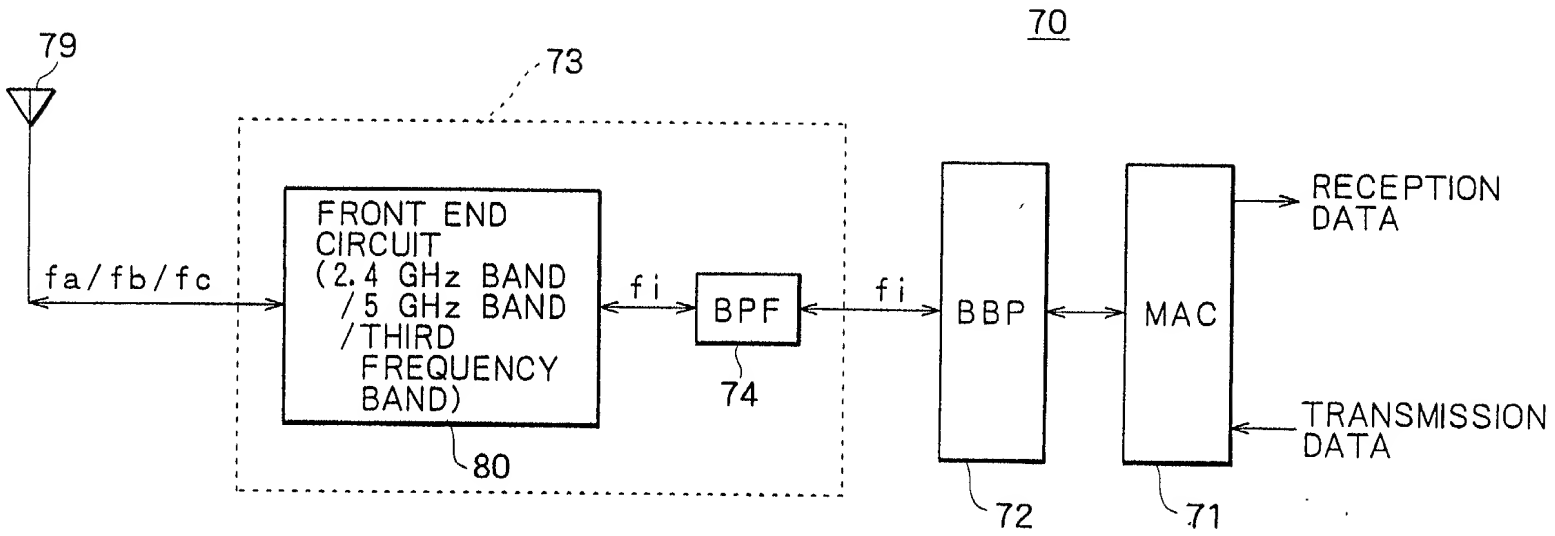

70
79
73
FRONT END CIRCUIT (2.4 GHz BAND /5 GHz BAND /THIRD FREQUENCY BAND)
80
fa/fb/fc
fi
BPF
74
fi
BBP
72
MAC
71
RECEPTION DATA
TRANSMISSION DATA

FIG. 13

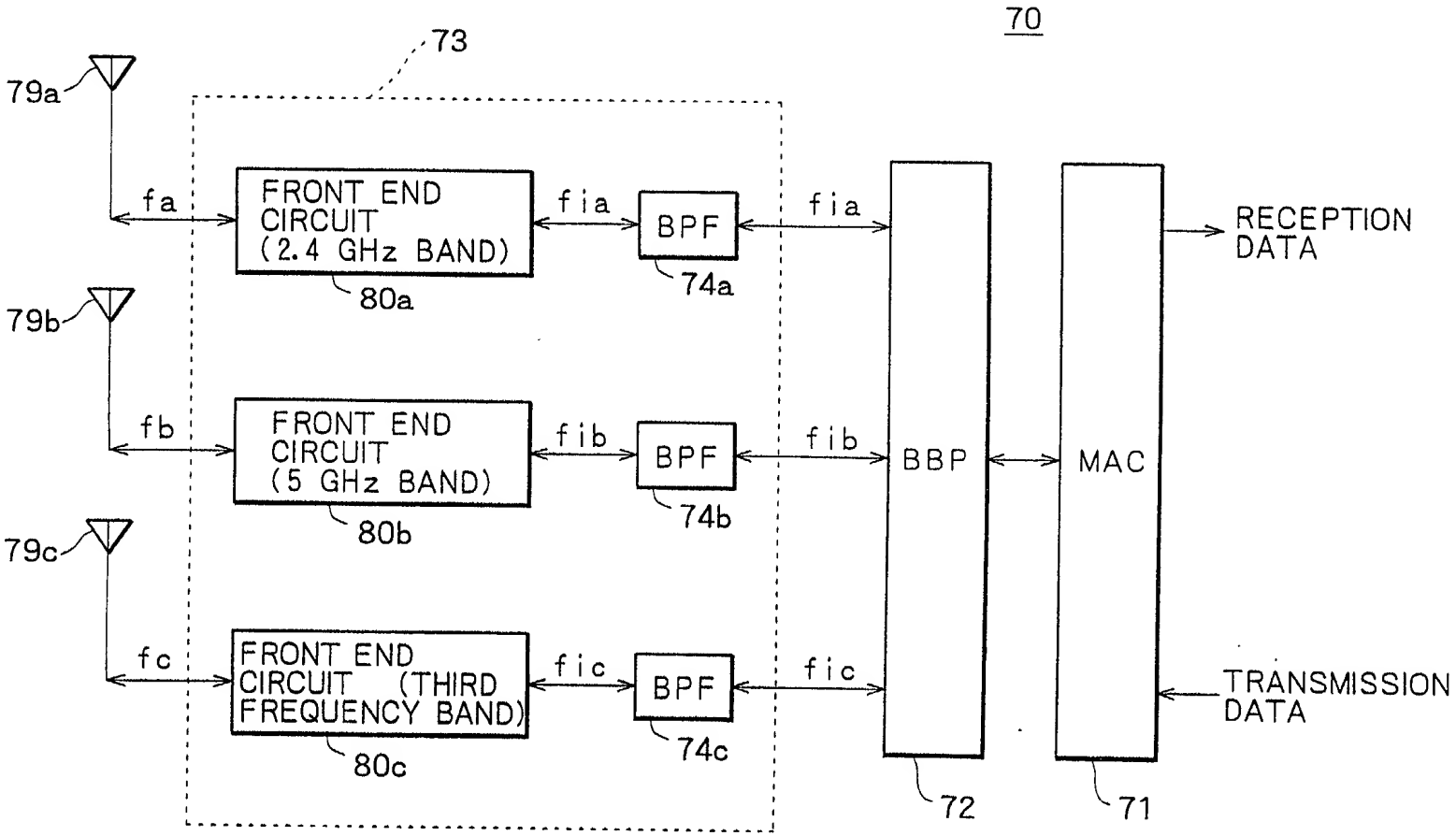

70
73
79a
79b
79c
fa
fb
fc
FRONT END CIRCUIT (2.4 GHz BAND)
80a
FRONT END CIRCUIT (5 GHz BAND)
80b
FRONT END CIRCUIT (THIRD FREQUENCY BAND)
80c
fia
fib
fic
BPF
74a
74b
74c
BBP
72
MAC
71
RECEPTION DATA
TRANSMISSION DATA

FIG. 14

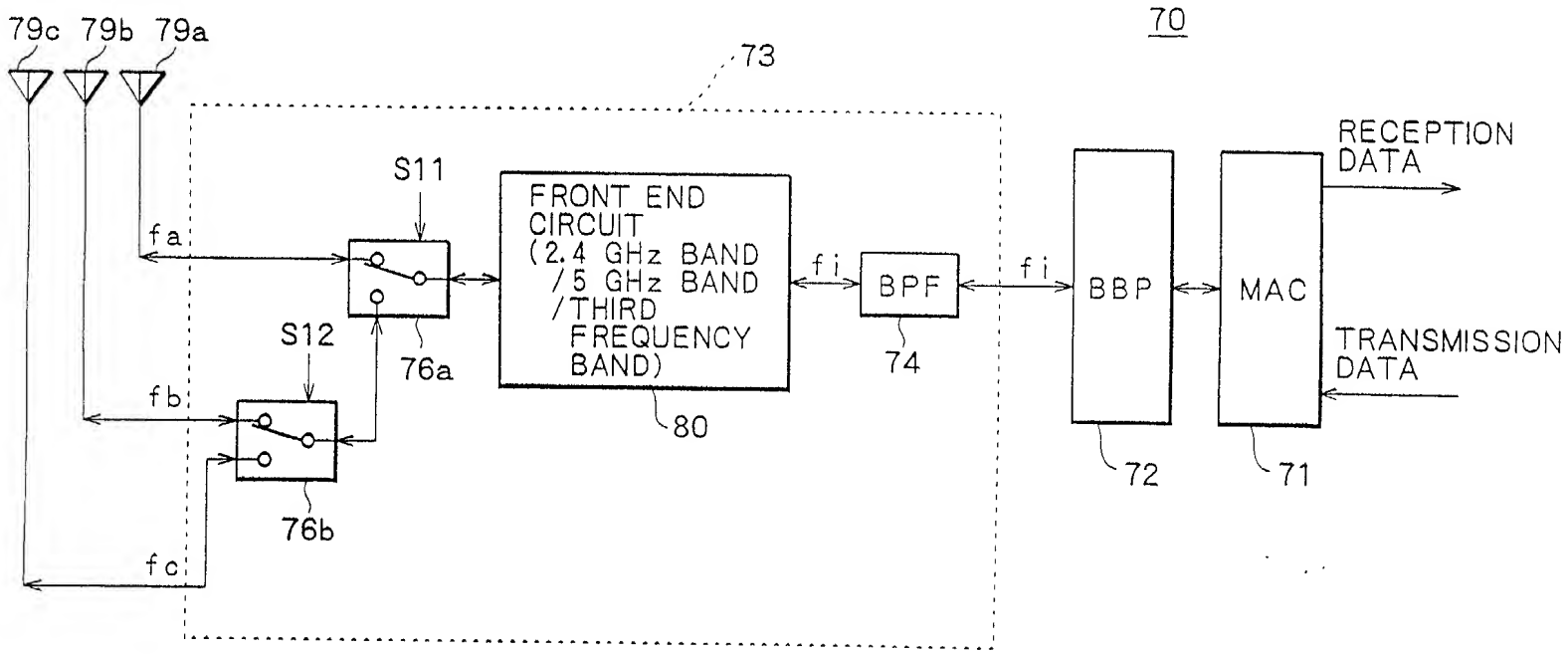

79c
79b
79a
70
73
S11
S12
fa
fb
fc
76a
76b
FRONT END CIRCUIT (2.4 GHz BAND /5 GHz BAND /THIRD FREQUENCY BAND)
80
fi
BPF
74
fi
BBP
72
MAC
71
RECEPTION DATA
TRANSMISSION DATA

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FIG. 15

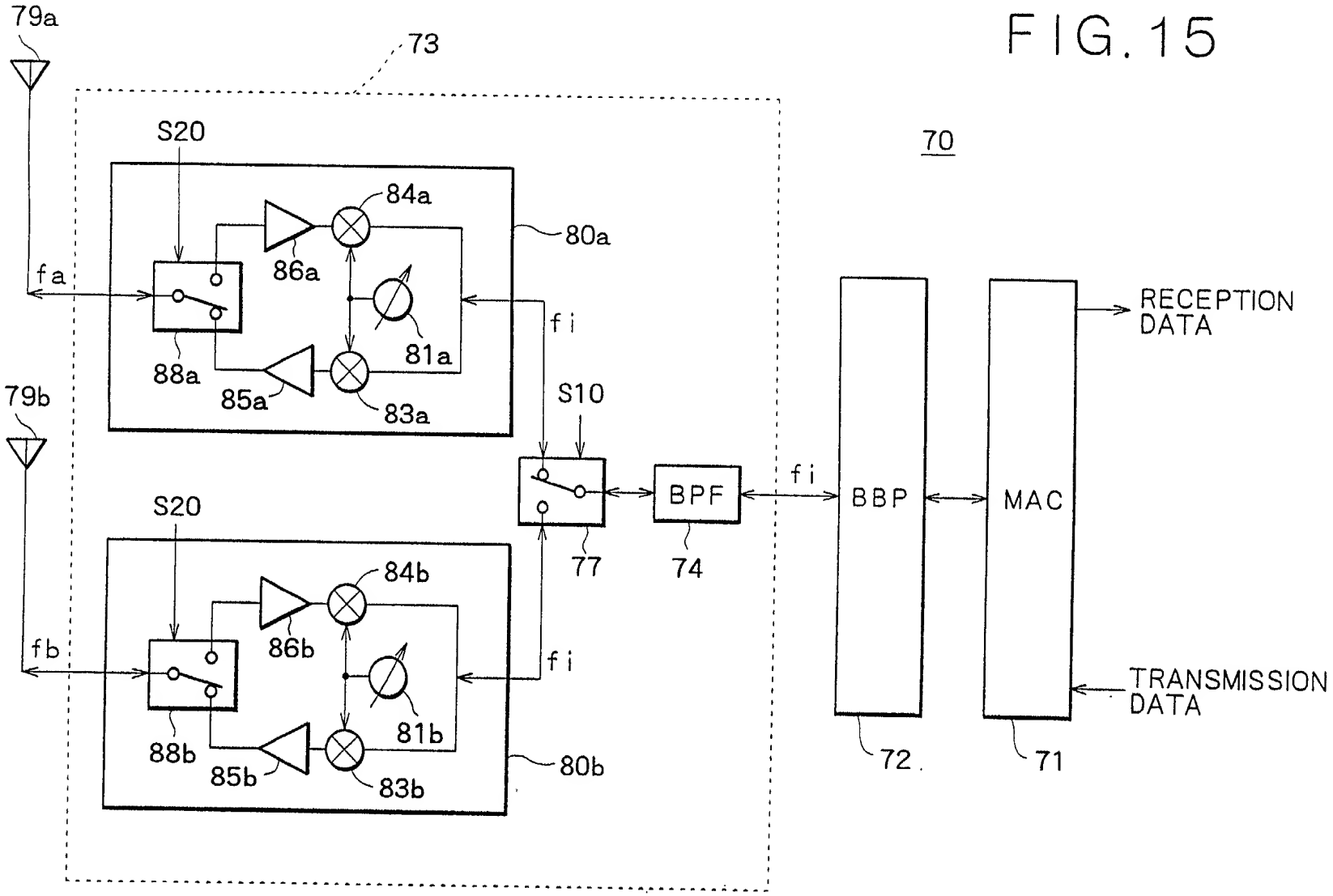


FIG. 16

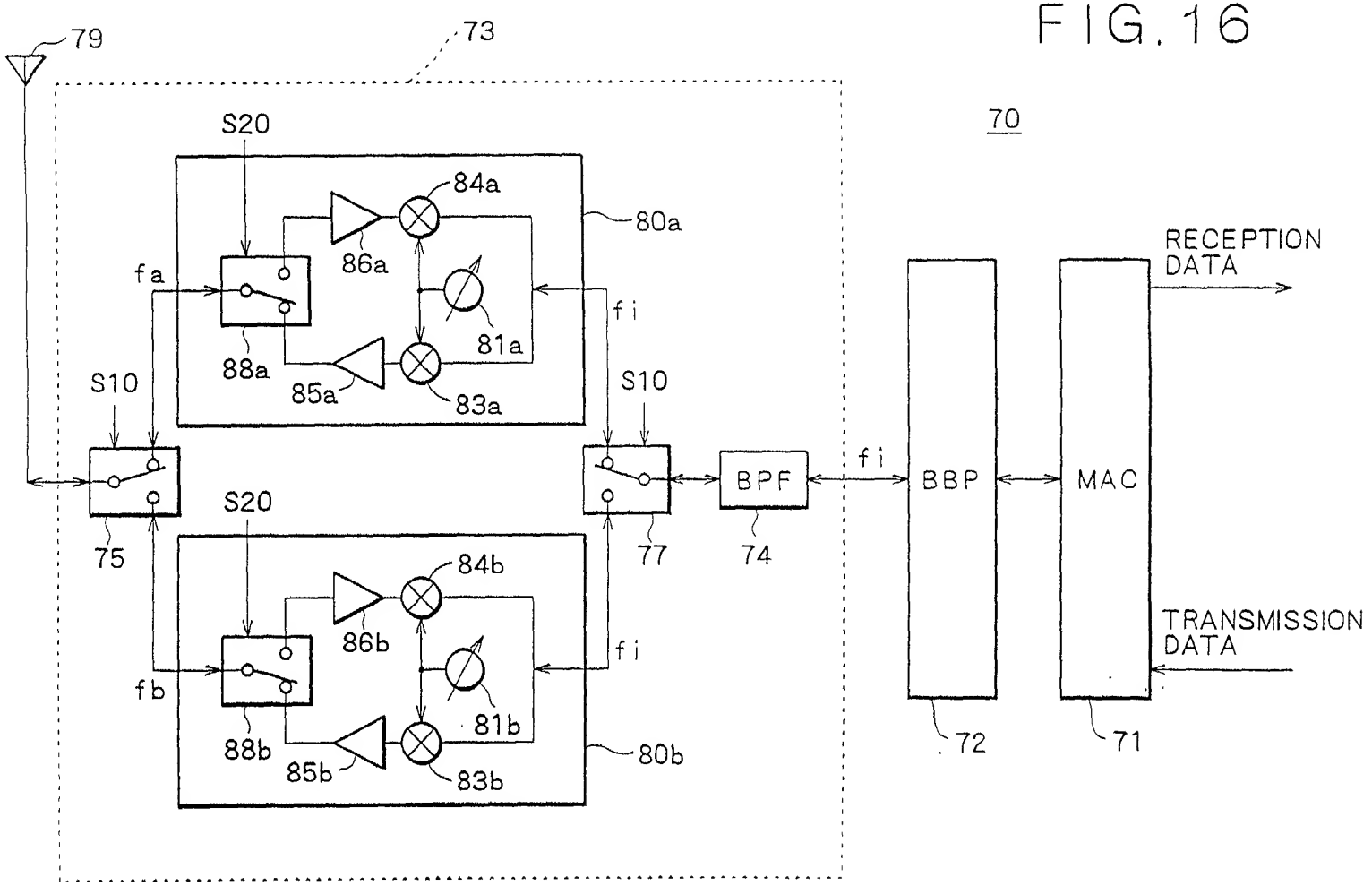
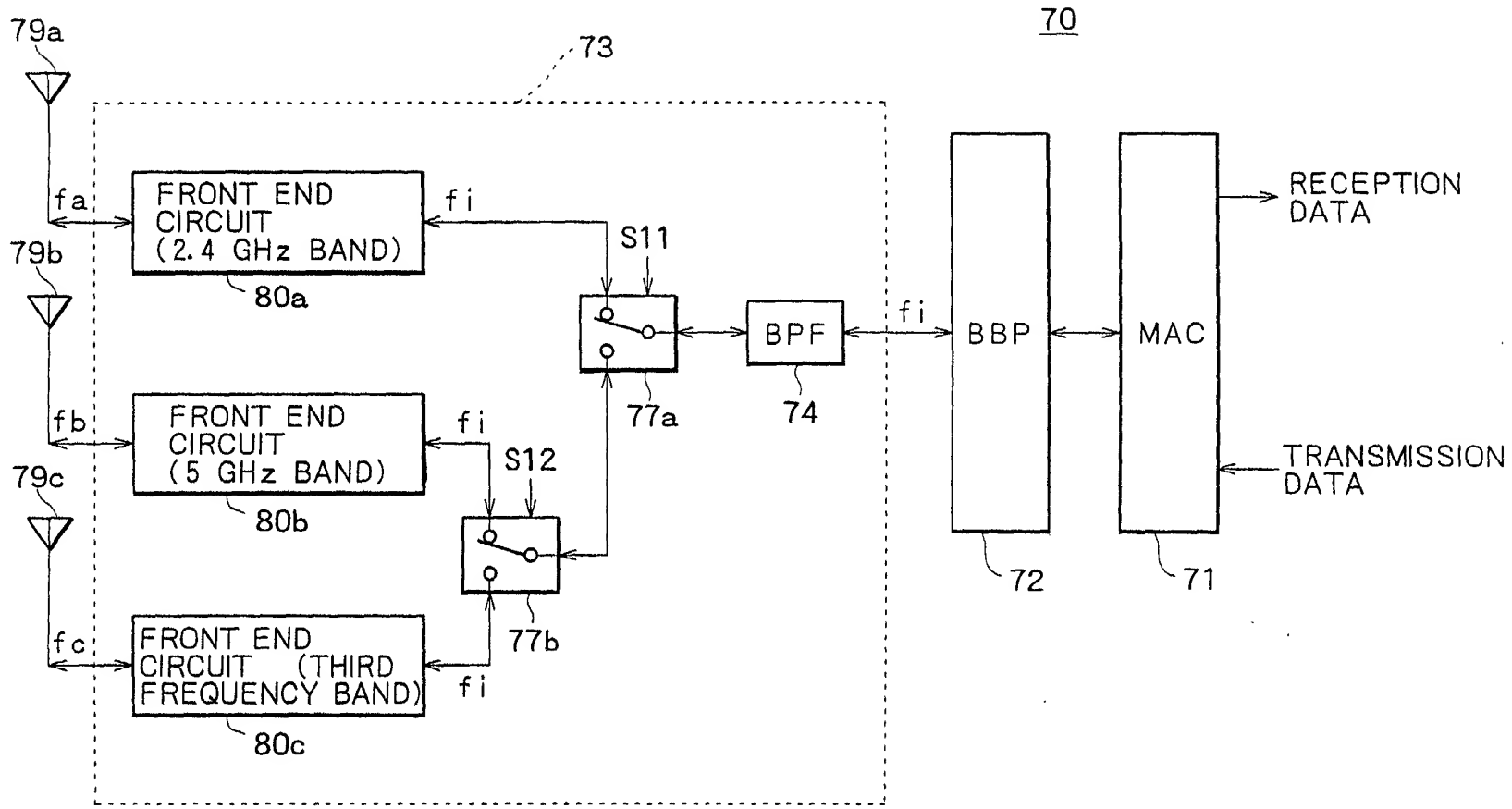

79
73
70
S20
84a
80a
86a
fa
fi
81a
88a
85a
83a
S10
S10
RECEPTION DATA
BPF
fi
BBP
MAC
75
77
74
S20
84b
86b
fi
fb
81b
88b
85b
83b
80b
TRANSMISSION DATA
72
71

FIG. 17


70
73
79a
79b
79c
fa
fb
fc
FRONT END CIRCUIT (2.4 GHz BAND)
80a
FRONT END CIRCUIT (5 GHz BAND)
80b
FRONT END CIRCUIT (THIRD FREQUENCY BAND)
80c
fi
S11
S12
77a
77b
BPF
74
BBP
72
MAC
71
RECEPTION DATA
TRANSMISSION DATA

JP2002-152068 A

FIG. 18

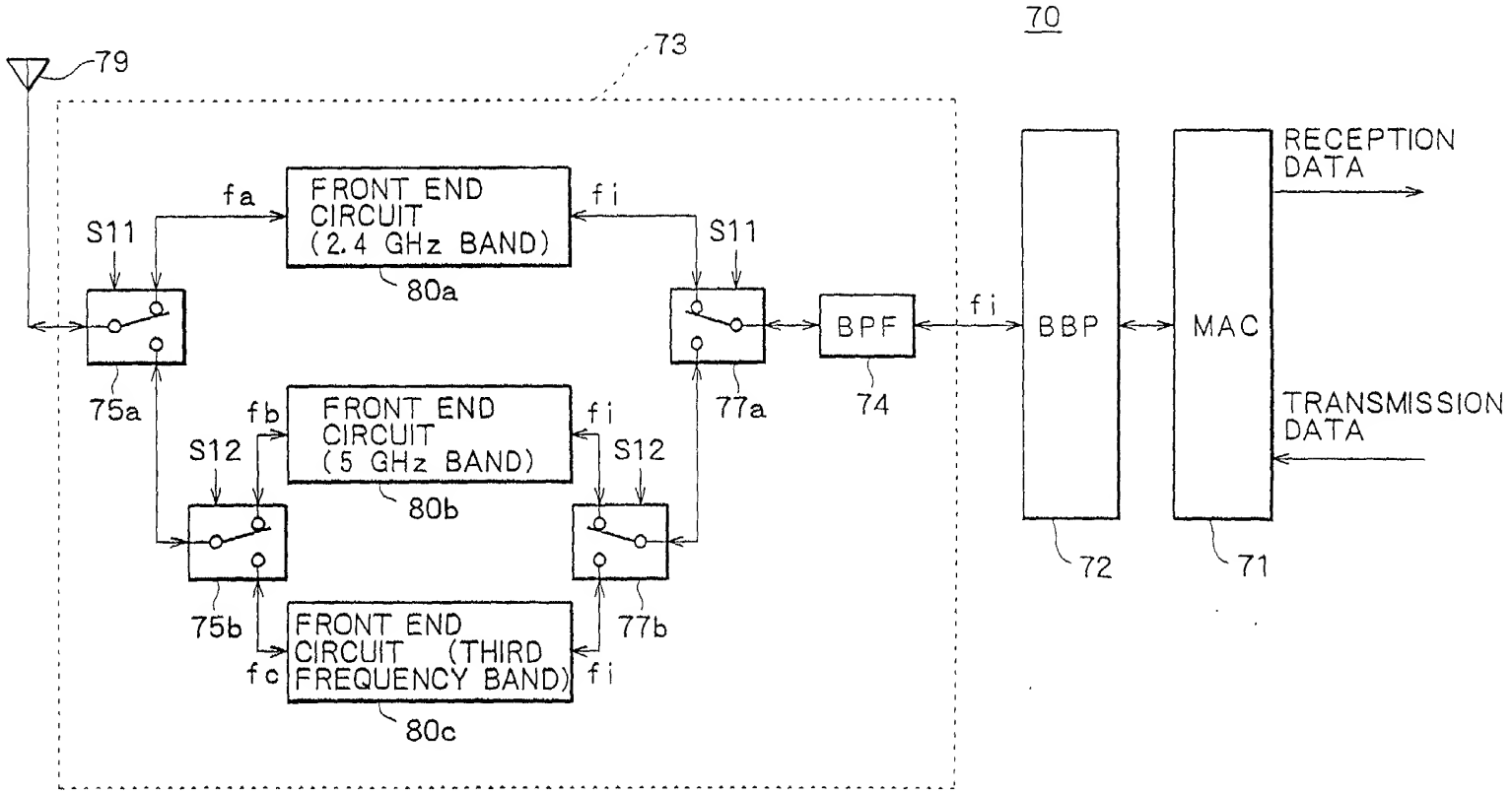


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FIG. 19

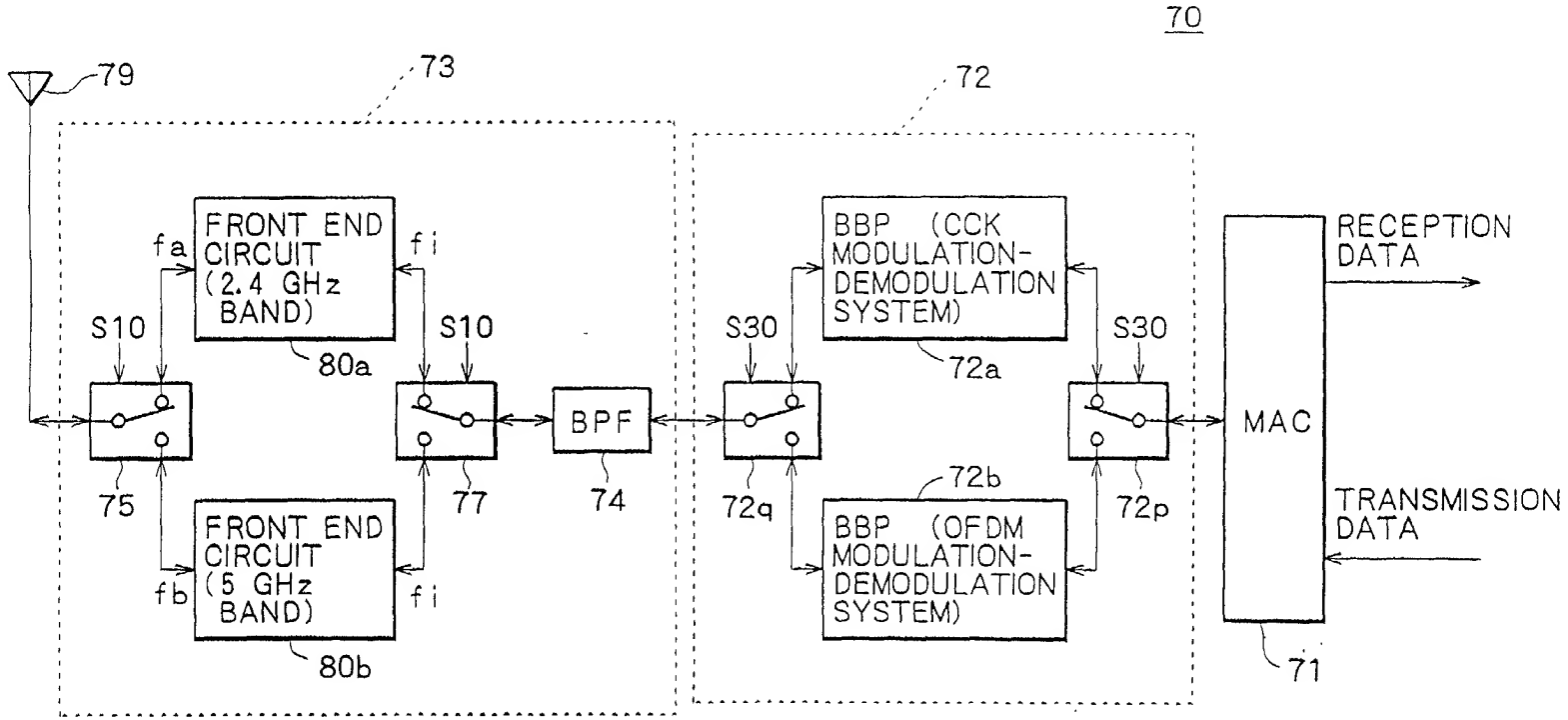

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FIG. 20

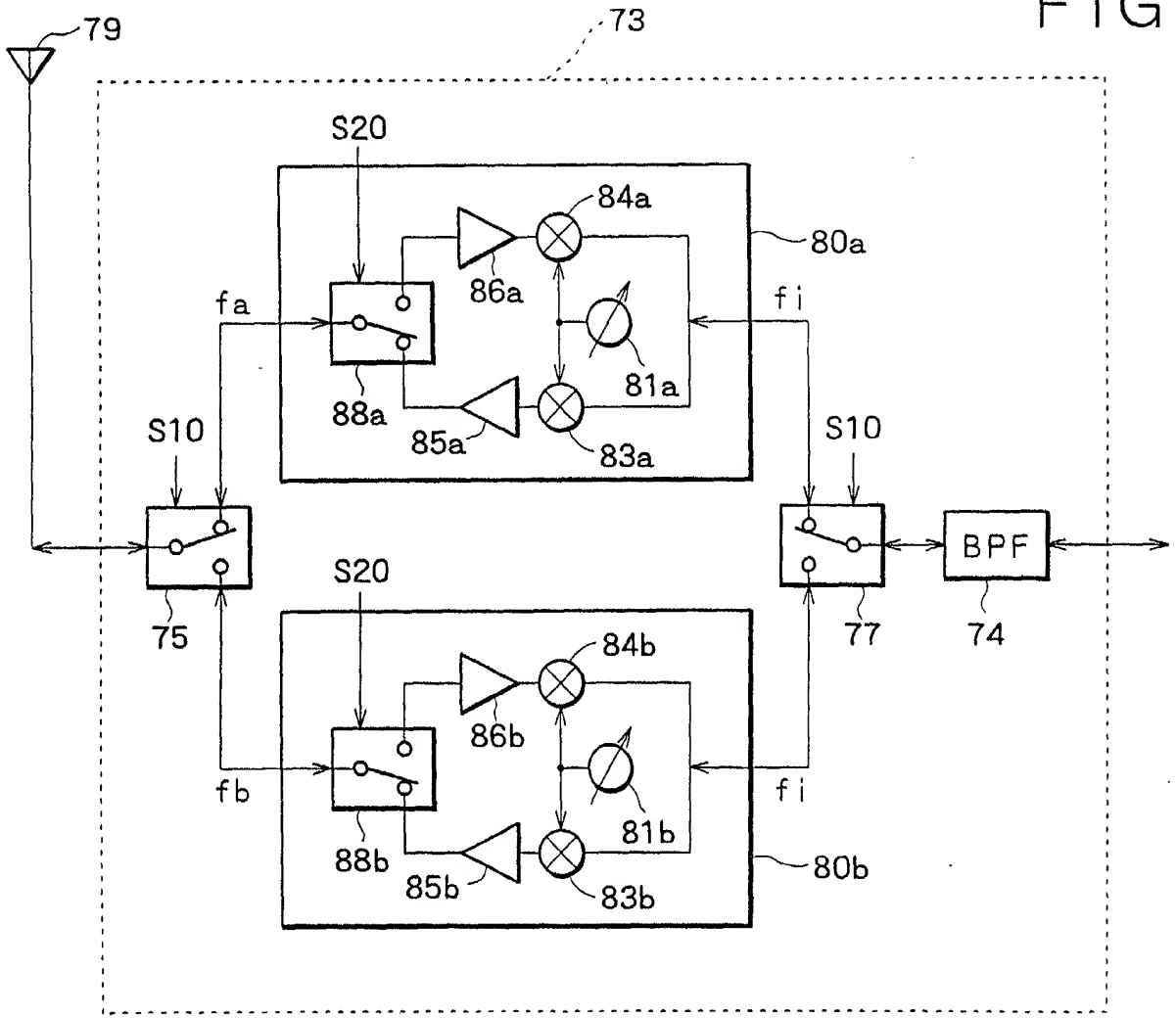


FIG. 21A

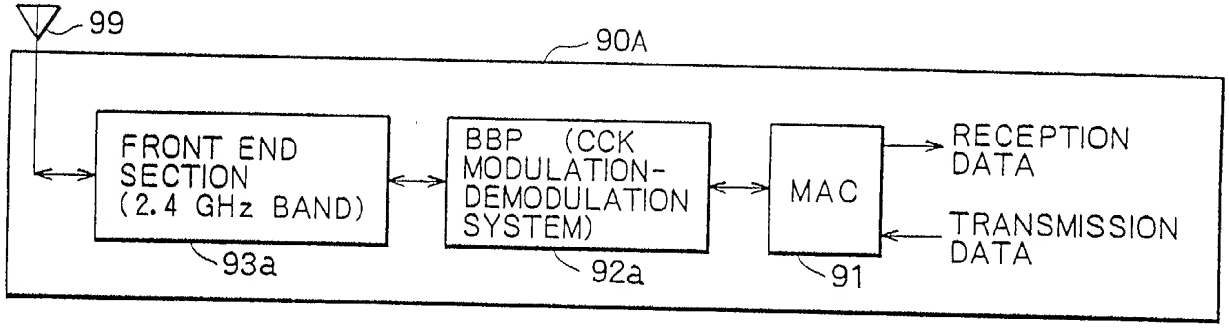


FIG. 21B

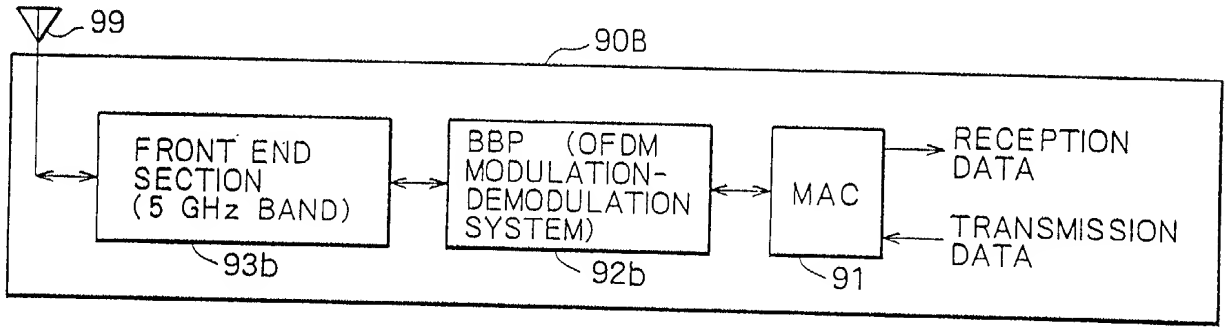


FIG. 21C

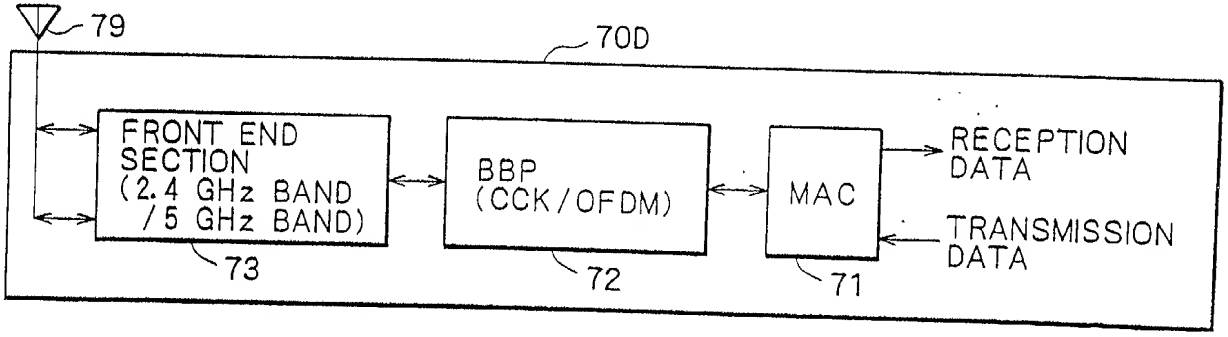
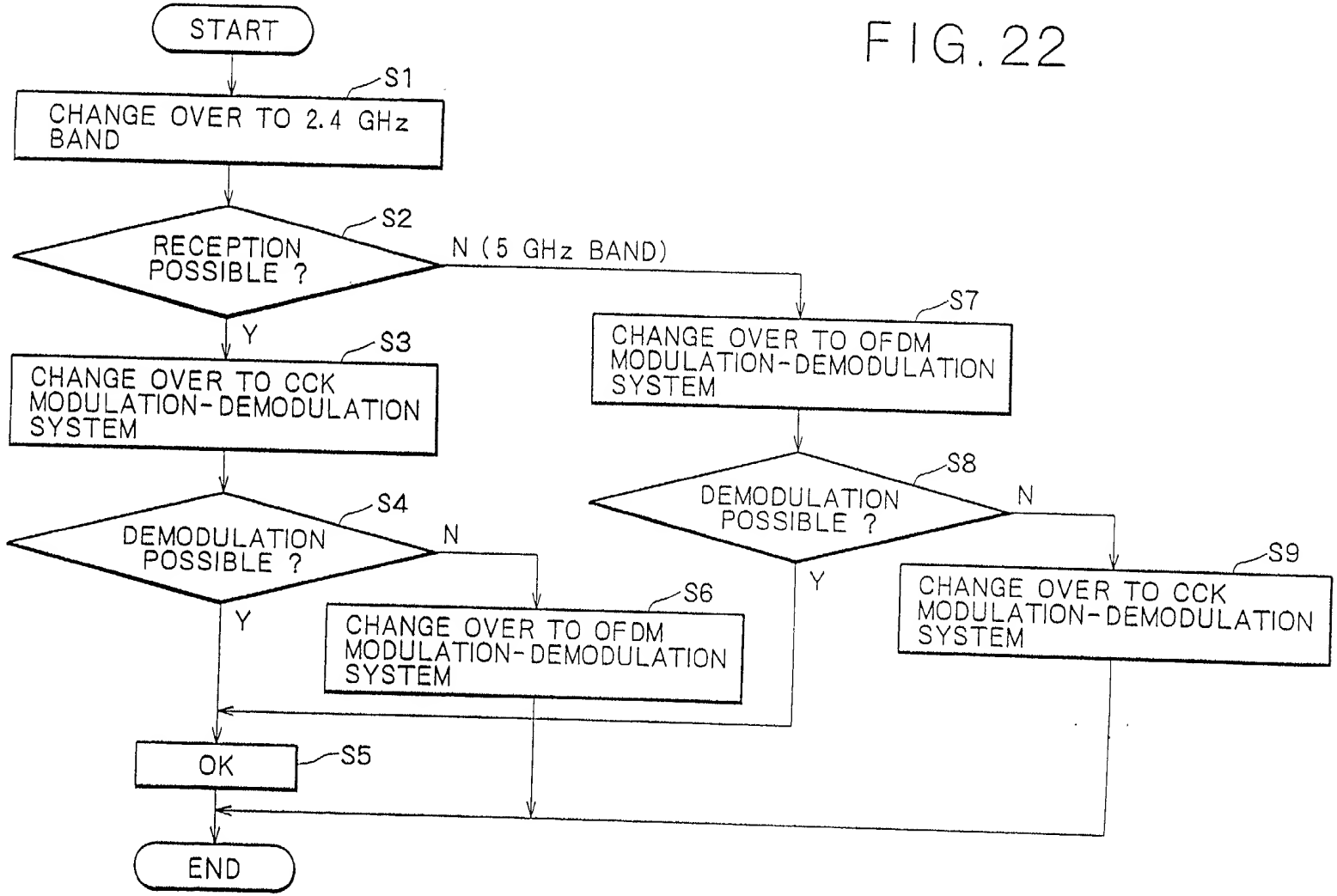


FIG. 22


START
S1
CHANGE OVER TO 2.4 GHz BAND
S2
RECEPTION POSSIBLE ?
N (5 GHz BAND)
Y
S3
CHANGE OVER TO CCK MODULATION-DEMODULATION SYSTEM
S4
DEMODULATION POSSIBLE ?
N
Y
S6
CHANGE OVER TO OFDM MODULATION-DEMODULATION SYSTEM
S7
CHANGE OVER TO OFDM MODULATION-DEMODULATION SYSTEM
S8
DEMODULATION POSSIBLE ?
N
Y
S9
CHANGE OVER TO CCK MODULATION-DEMODULATION SYSTEM
OK
S5
END